

Claim listing:

1. (Previously presented) A system for programming a fuze comprising:
 - a fuze having a power receiver and a data receiver, and
 - a fuze setter having a power transmitter and a data transmitter,wherein operational power for the fuze is inductively transmitted from the power transmitter to the power receiver; and pre-launch fuze setting data is transmitted from the data transmitter to the data receiver via an electromagnetic signal selected from a group consisting of the infrared, RF, visible and UV bands of the electromagnetic spectrum.
2. (Previously presented) The system of claim 1, wherein the power transmitter comprises an inductive coil and the data transmitter comprises an antenna.
3. (Previously presented) The system of claim 1, wherein the fuze comprises a data transmitter having an antenna; the fuze setter comprises a data receiver; and the setting data received by the fuze is verified by a reverse transmission from the fuze data transmitter back to the fuze setter data receiver.
4. (Previously presented) The system of claim 1, wherein the data transmitter is within 6 inches of the data receiver.
5. (Previously presented) A system for programming a fuze comprising:
 - a fuze comprising a power receiver and a radio frequency data receiver; and
 - a fuze setter comprising a power transmitter and a radio frequency data transmitter;wherein operational power for the fuze is inductively transmitted from the power transmitter to the power receiver, and pre-launch fuze setting data is transmitted from the radio frequency data transmitter and received by the radio frequency data receiver.
6. (Previously presented) The system of claim 5, wherein the radio frequency data receiver of the fuze comprises a radio frequency transceiver; and the radio frequency data transmitter of the fuze setter comprises a radio frequency transceiver.
7. (Previously Presented) The system of claim 6, wherein a talkback signal is sent from the fuze transceiver to the fuze setter transceiver to verify the setting data.
8. (Original) The system of claim 5, wherein the fuze setting data is transmitted via a frequency modulated carrier signal.

9. (Original) The system of claim 8, wherein the fuze setting data is transmitted using frequency shift keying.
10. (Previously presented) The system of claim 5, wherein the power transmitter comprises an inductive coil and the data transmitter comprises an antenna.
11. (Previously presented) The system of claim 5, wherein the data transmitter is within 6 inches of the data receiver.
12. (Previously presented) The system of claim 5, wherein the data transmitter comprises a level shifter, a modulation circuit and an antenna.
13. (Original) The system of claim 12, wherein the level shifter comprises a first digital-to-analog converter and a second digital-to-analog converter, the output of the first digital-to-analog converter having a higher voltage than the output of the second digital-to-analog converter.
14. (Previously presented) The system of claim 5, wherein the data receiver comprises an antenna, a modulation circuit and an analog-to-digital converter.
15. (Previously presented) The system of claim 1, wherein the operational power and the pre-launch fuze setting data are transmitted simultaneously.
16. (Previously presented) The system of claim 3, wherein the reverse transmission comprises a radio signal.
17. (Previously presented) The system of claim 5, wherein the operational power and the pre-launch fuze setting data are transmitted simultaneously.
18. (Previously Presented) The system of claim 5, wherein at least 1,000,000 bits/second is transmitted from the transmitter to the receiver.
- 19-20. (Cancelled)
21. (Previously presented) A method of setting a projectile fuze comprising:
 - providing a fuze comprising a power receiver and a radio frequency data receiver;
 - providing a fuze setter comprising a power transmitter and a radio frequency data transmitter, the power transmitter comprising an inductive coil, the radio frequency data transmitter comprising an antenna;
 - transmitting operational power for the fuze from the power transmitter to the power receiver via an inductive signal; and

transmitting fuze setting data from the radio frequency data transmitter to the radio frequency data receiver via a radio signal.

22. (Previously presented) The method of claim 21, wherein the step of transmitting fuze setting data comprises:

modulating a radio frequency carrier signal using frequency shift keying;
transmitting the modulated carrier signal via the radio frequency data transmitter;
receiving the modulated carrier signal via the radio frequency data receiver; and
down converting the modulated carrier signal.

23. (Previously presented) The method of claim 21, wherein the step of transmitting operational power is performed for an initial power-up period before the step of transmitting fuze setting data is performed.

24. (Previously presented) A system for programming a fuze comprising:
a fuze comprising a power receiver and a data receiver; and
a fuze setter comprising a power transmitter and a data transmitter, the power transmitter comprising an inductive coil;

wherein the power transmitter transmits an inductive power carrier signal and the data transmitter transmits an electromagnetic signal comprising pre-launch fuze setting data, and the data receiver receives the electromagnetic signal.

25. (Previously Presented) The system of claim 24, wherein the electromagnetic signal has a frequency ranging from greater than 100 kHz to 100 PHz.

26. (Previously presented) The method of claim 21, wherein the inductive signal and the radio signal are transmitted simultaneously.